

Author(s): Steve Jackson, PhD, 2009

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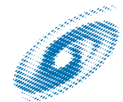
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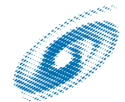
SI657/757: Information Technology and Global Development (WI 10)

Wk 6: Building Critical Infrastructure



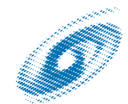
General Notes:

- Reading responses #1 & 2
- Last hour: group work & consultation
- Midterm feedback
- Policy assessment paper: March 15th



General feedback, 657 reading notes

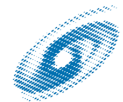
- Include bibliographic reference of article; no other footnotes required
- Quotes & page #s
- Bolding, lists, and other devices
- Not too bullet point-y
- Pointers to particularly useful passages (e.g. “see figure 2 on page X”)
- Be as specific as possible / avoid overly general, abstract, and simplistic conclusions; opt for author’s terms, unless good reasons not to
- Look at examples from other students on Ctools
- Use your own reactions to other summaries – what’s useful here?



Global telecoms reform, 1980s-present

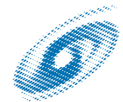
■ Contexts of reform:

- * debt;
- * structural adjustment and WTO agreements;
- * bloated, inefficient, and underperforming bureaucracies (PTOs);
- * new global investment flows in telecoms (e.g. Telefonica, Telkom Malaysia, etc.);
- * globalization of economic production
- * telecoms as key development sector and economic driver (e.g. ITU 'Missing Link' report);
- * 'telecoms +': Internet and mobile



Problems of telecoms reform

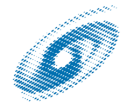
- Sequencing (corporatization, privatization, liberalization)
- Valuation?
- Short-term gain (balance of payments, domestic stock markets, etc.) vs. long-term public value
- Effective competition
- Enforcing universal service and network extension goals (non-attractive market segments)
- Incumbents and entrenched interests (e.g. anti-competitive behavior around interconnection policies, monopoly leveraging, number portability, etc.)
- Autonomous and effective regulatory institutions



Global Internet Traffic Map, 2008

Image of 2008 Global Traffic Map
from TeleGeography removed.

See
[http://www.telegeography.com/
product-info/map_traffic/](http://www.telegeography.com/product-info/map_traffic/)

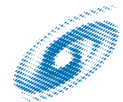


Submarine Cables, 2009

(existing and planned)

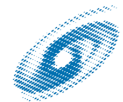
Image of 2009 Submarine Cable Map
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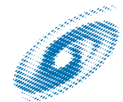
Global trends: price, access, and the digital divide

- International Telecommunication Union, *Measuring the Information Society* (2010)
- Chart 1: trends in mobile vs. other ICT categories, 98-present
- Table 1: ICT Development Index (access, use, and skill sub-indices)
- Slight shrinkage in digital divide
- ICT price baskets, relative to income



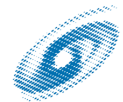
Limits of stats and indicators

- Shared-use models (e.g., shared computing, mobile sharing, etc.)
- Second-order effects
- Local innovation and novel modes of infrastructure provision
- Local use and meaning



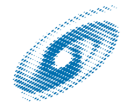
Regional Comparisons (small groups):

- What are the 4-5 most noteworthy, important, or surprising features of telecommunications development in each of the regions surveyed? (Americas, Africa, Asia-Pacific, CIS)
- What patterns or trends are common across the regions surveyed, and what are distinctive or different?



Open ICT4D

- What do (and don't) Smith et. al. mean by 'open ICT4D'?
- What are the main *promises* of 'openness' for development, according to Smith et. al.?
- What are the main *barriers* confronting openness for development (according to the authors? according to you?)
- Does open ICT4D constitute a new and transformative paradigm, a modest contribution, or another failed magic bullet solution for development moving forward?



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Slide 9: TeleGeography

Slide 10: TeleGeography

